

Title (en)  
CRACKING FURNACE WITH RADIANT HEATING TUBES

Title (de)  
CRACK-OFEN MIT WÄRMESTRAHLENDEN RÖHREN

Title (fr)  
FOURNEAU DE CRAQUAGE COMPORTANT DES TUBES DE CHAUFFAGE PAR RAYONNEMENT

Publication  
**EP 1009784 B1 20041006 (EN)**

Application  
**EP 98922286 A 19980511**

Priority  
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Abstract (en)  
[origin: WO9851761A1] The present invention provides a furnace (6) and process that relied on a multiplicity of radiant heating tubes (20), each in the form of a U-shaped coil, that are mounted within a furnace firebox (10) such that an inlet leg (22) of any one of the plural tubes (20) is immediately adjacent and spaced apart from an outlet leg (26) of another one of the plural tubes (20) within the firebox (10) of a thermal cracking furnace (6). This spacial pairing of an inlet leg (22) of one tube with an outlet leg (26) of another tube of the plural radiant heating tubes (20) of the cracking furnace (6) maximizes utilization of the available radiant heat within the firebox (10) of the thermal cracking furnace (6) while reducing the likelihood of localized hot spotting that could produce coke-tar plugging of the tube (20).

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